

Climate Strike





Introduction

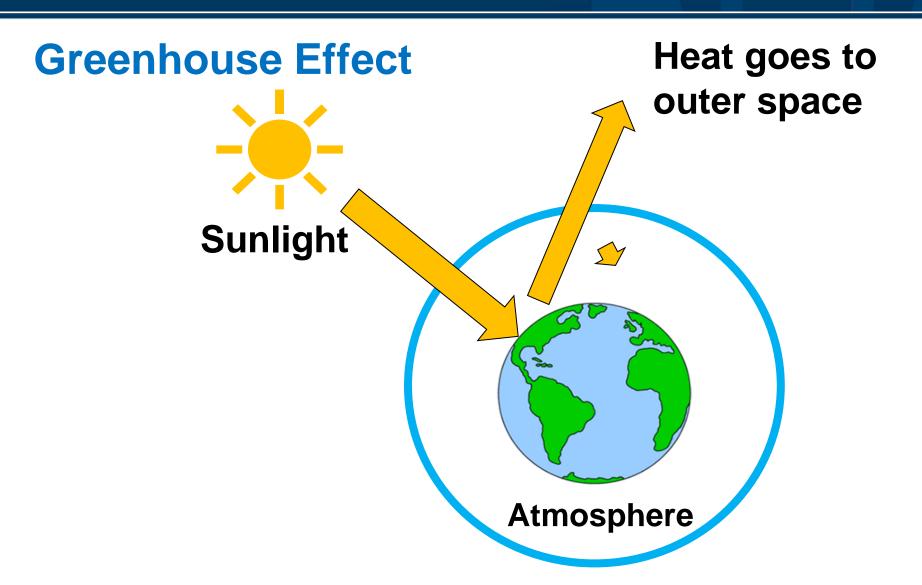


- Phoenix joined C40 Cities in Feb. 2020
- Mayor Kate Gallego affirmed Phoenix commitment to the Paris Climate Agreement
- C40-compliant Climate Action Plan by Dec 2021



Introduction - Why Greenhouse Gases?

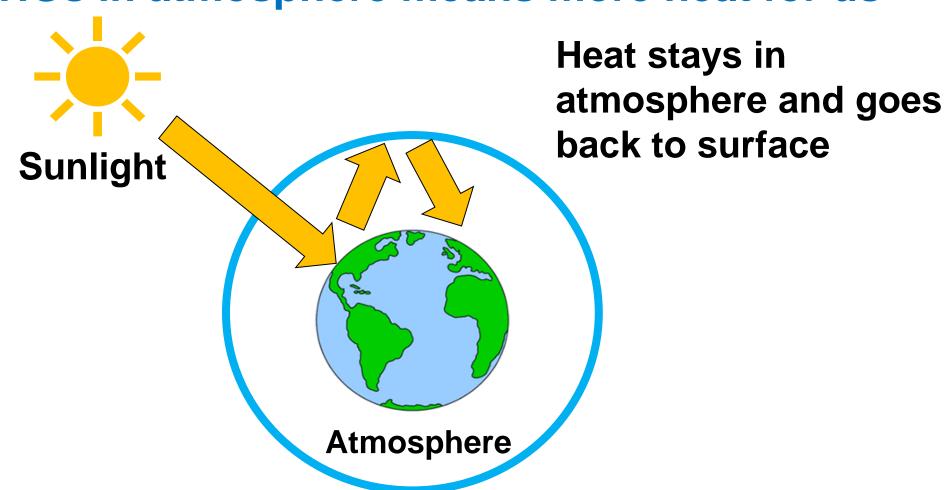




Introduction - Why Greenhouse Gases?

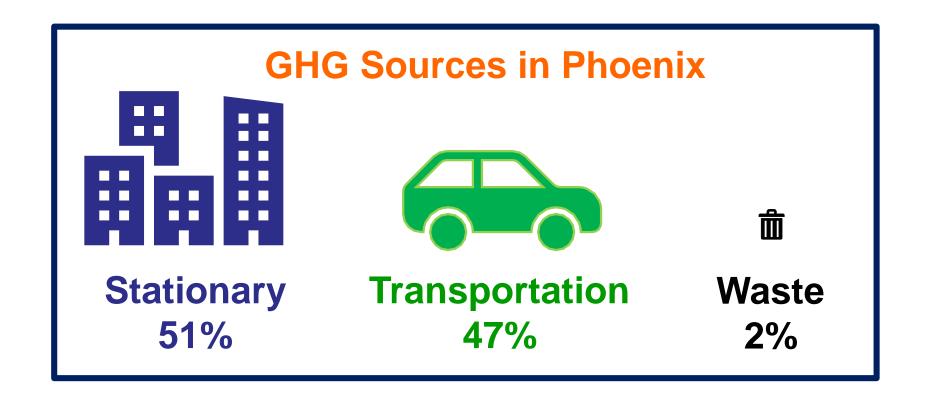


More GHGs in atmosphere means more heat for us



Introduction

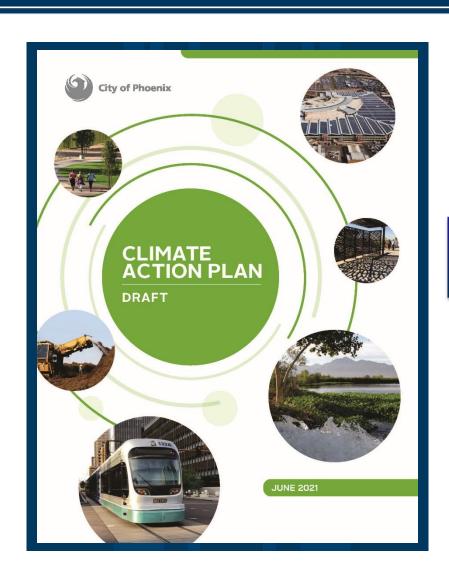




The largest sources of GHGs are from generation of electricity and gasoline fuel.

Climate Action Plan Draft





phoenix.gov/climate

Climate Action Planning







Stationary Energy Sector
Transportation Sector
Waste Sector





Air Quality
Local Food Systems
Heat
Water

Stationary Energy Goals



2050 Goal:





Goal 1
Municipal Operations
net-zero GHG
emissions by 2035.

Goal 2
Three new
conservation and
renewable-energy
programs by 2025.

Goal 3Promote development of **microgrids**.

Goal 4
Net-Positive
Buildings by 2050.

Goal 5
Net-zero electrical
grid for all by 2050

Transportation Goals



2050 Goal:







Goal 1

Implement the city's Complete Streets
Policy and Active Transportation
Program to encourage multiple
modes of transportation.

Goal 2 Increase the use of low carbon fuels.

Goal 3

Increase the adoption and rollout of electric vehicle and electric-vehicle charging stations.

Goal 4 Reduce the number of single occupancy vehicle trips taken.

Waste as a Resource Goals



2050 Goal:





Goal 1

Implement programs to increase the reuse and recovery of waste materials and promote social and economic value.

Goal 2

Reduce GHG emissions resulting from degradation of waste by increasing landfill gas capture.

Goal 3

Increase wastediversion participation by all residents and businesses.

Goal 4

Transition to green alternatives from environmentally hazardous materials.

Goal 5

Expand brownfield redevelopment along the Rio Salado in Phoenix.

Goal 6

Reduce GHG emissions from water and wastewater treatment by capturing biogas from treatment processes.

Local Food Systems Goals



2050 Goal:





Goal 1

All people living in Phoenix should have enough to eat and have access to affordable, healthy, local, and culturally appropriate food.

Goal 2

Businesses that produce, process, distribute, and sell local and healthy food should be recognized as integral to the economy and encouraged to grow and thrive in Phoenix.

Goal 3

Growing food in Phoenix and the region should be **easy and valued**, for personal or business use.

Goal 4

Food-related waste should be prevented, reused, or recycled via sustainable food production practices that maintain a healthy environment.

Goal 5

Develop food policies and actions that address local and global challenges posed by climate change, urbanization, political and economic crises, population growth and other factors.

Local Food Systems – Quickstart Example



Convene local food producers with city staff, leaders, and elected officials to build trust and understanding by 2020.

Maricopa County COMMUNITY FARMER ROUNDTABLE

- Farmer Roundtable in October 2020 with Local First Arizona
 - Steering Committee member for Coalition for Farmland Preservation

Phoenix Food Facts

- Food desert: poverty rate above 20% where more than 33% are more than 1 mile from fresh and healthy food.
- 43 food deserts in Phoenix
- 75% of food deserts in Maricopa County
- 42% of the population in Phoenix is in a food desert

Local Food Systems – Key Achievement



Maricopa County Food System Coalition (MarCo)

- Voluntary community organization with mission of supporting and growing a food system that is healthy, equitable, sustainable, and thriving.
- Completed county's first comprehensive regional food assessment.









Develop Consistent Messaging

Support the Adoption of Policies and Regulations that Strengthen the Community Food System Foster Urban Food Production

Reduce Food Loss and Recover Food Waste

Local Food Systems – Community Impact



Spaces of Opportunity Farm and Garden



Air Quality Goals



2050 Goal:





Goal 1

Meet U.S. EPA National Ambient Air Quality Standards (NAAQS)

Heat Goals



2050 Goal:





Goal 1:

Create a network of cool corridors in vulnerable communities to facilitate movement from residents' homes to their places of employment, education and play.

Goal 2: shade provide

Increase shade provided by trees or constructed shade in parks, streets and right-of-way.

Goal 3:
Provide resources
and services to
residents to manage
heat.

Goal 4:

Increase the use of high albedo, or reflective, materials in infrastructure projects.

Goal 5:

Develop HeatReady certification for cities.

Water Goals



2050 Goal:



Goal 1:

Identify and implement infrastructure projects to ensure water security.

Goal 2:

Improve conservation of water resources by improving stormwater management, optimizing water use, conducting water audits, and utilizing wastewater.

Goal 3:

Increase outreach and provide programs to residents and businesses to reduce water use.

Raffle Winners

Thank you for your participation in the workshop!

- Two participants will each win one \$50 e-gift card.
- Winners will receive an email from Rosanne Albright next week.

Winners will be announced on our Twitter.

@phxenvironment







HOW DO I GET INVOLVED?

★ Fill out an organizer form:



Follow us on social media at @azyouthclimate

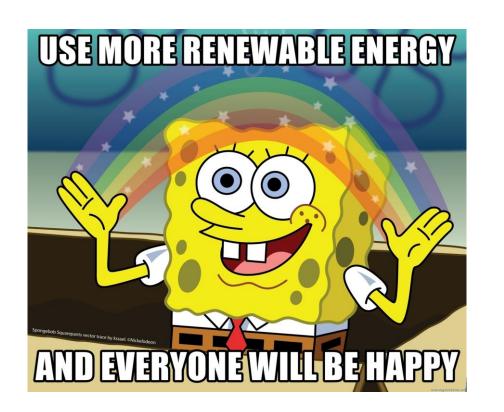
We're on Instagram, Twitter, and Facebook!

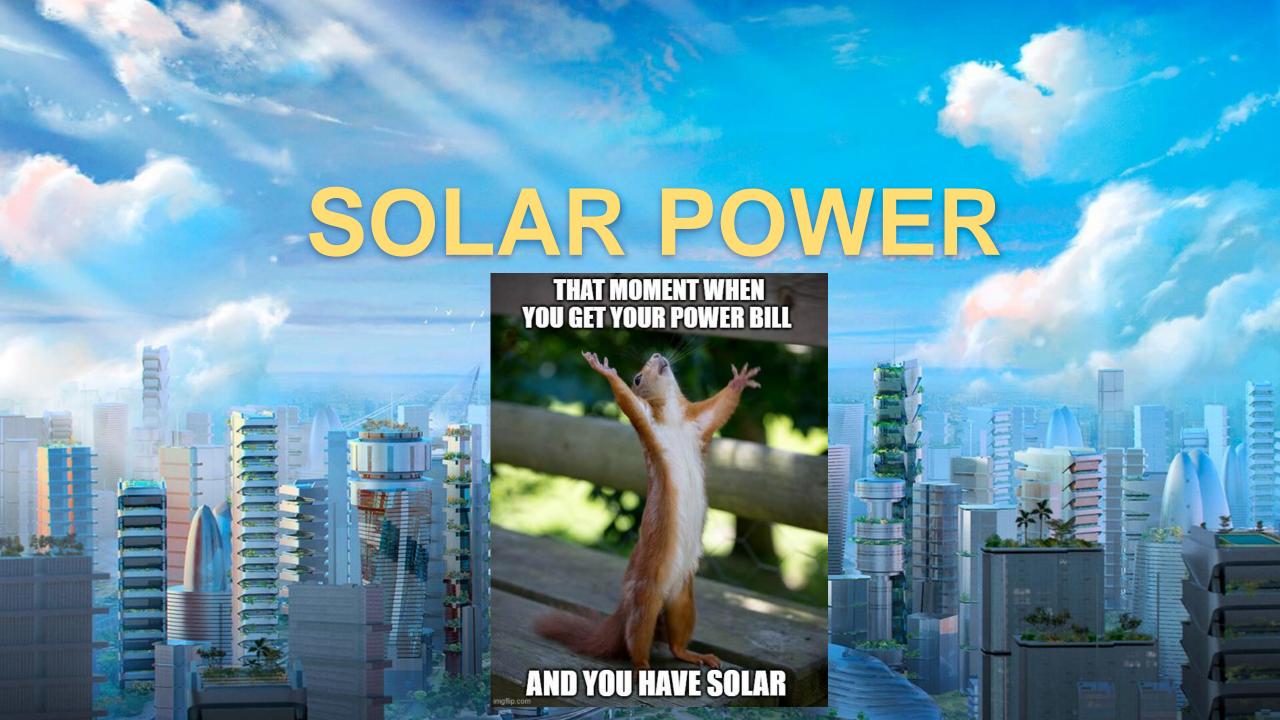




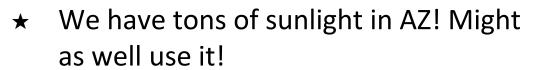


- ★ Solar Energy
- **★ Wind Power**
- **★** Hydroelectric Power
- **★** Geothermal Energy
- **★** Nuclear Energy (not clean)









- ★ How do solar panels work?
 - Sunlight hits the panels, activating the cells on the panel. Those cells make an electric current, which is then converted to energy that you can use!
- ★ Does anyone have solar panels?







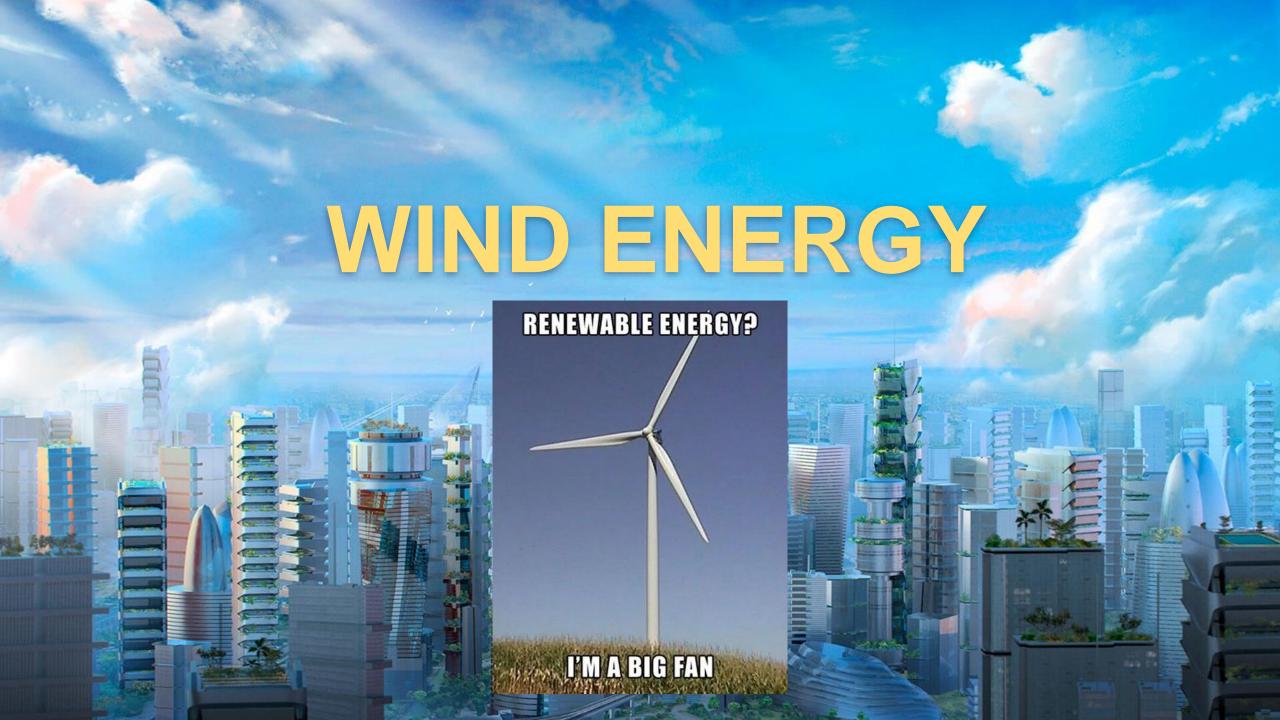
PROS

- ★ Renewable energy source!
- ★ Saves money on electric bill long-term
- ★ Long-lasting
- ★ Zero-waste

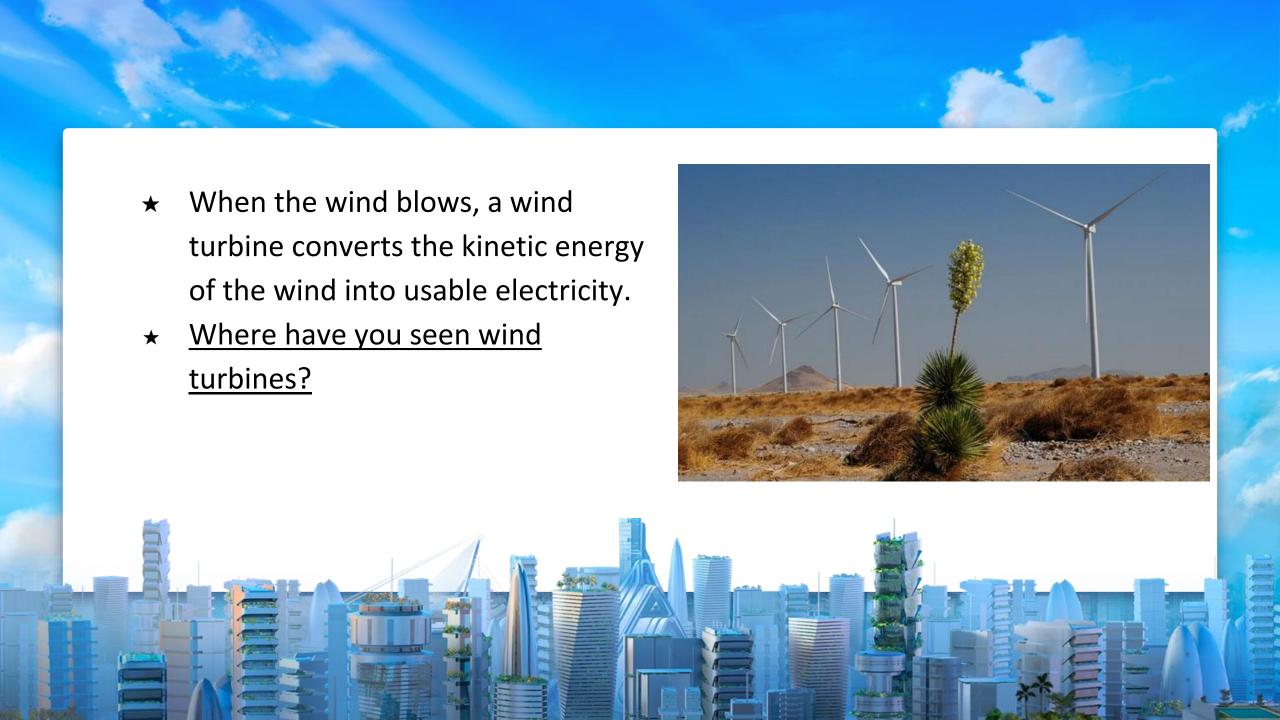
CONS

- ★ Immediate expense is a lot
- ★ Not good for on the move
- ★ Weather dependant

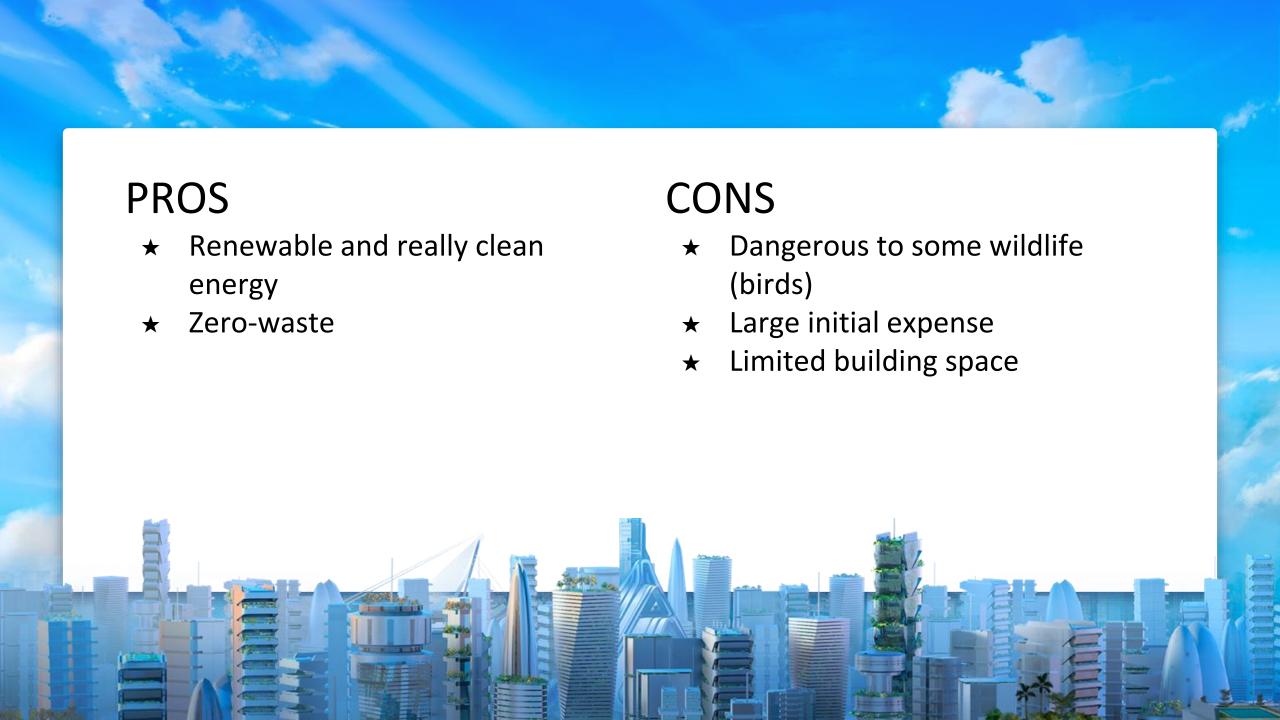






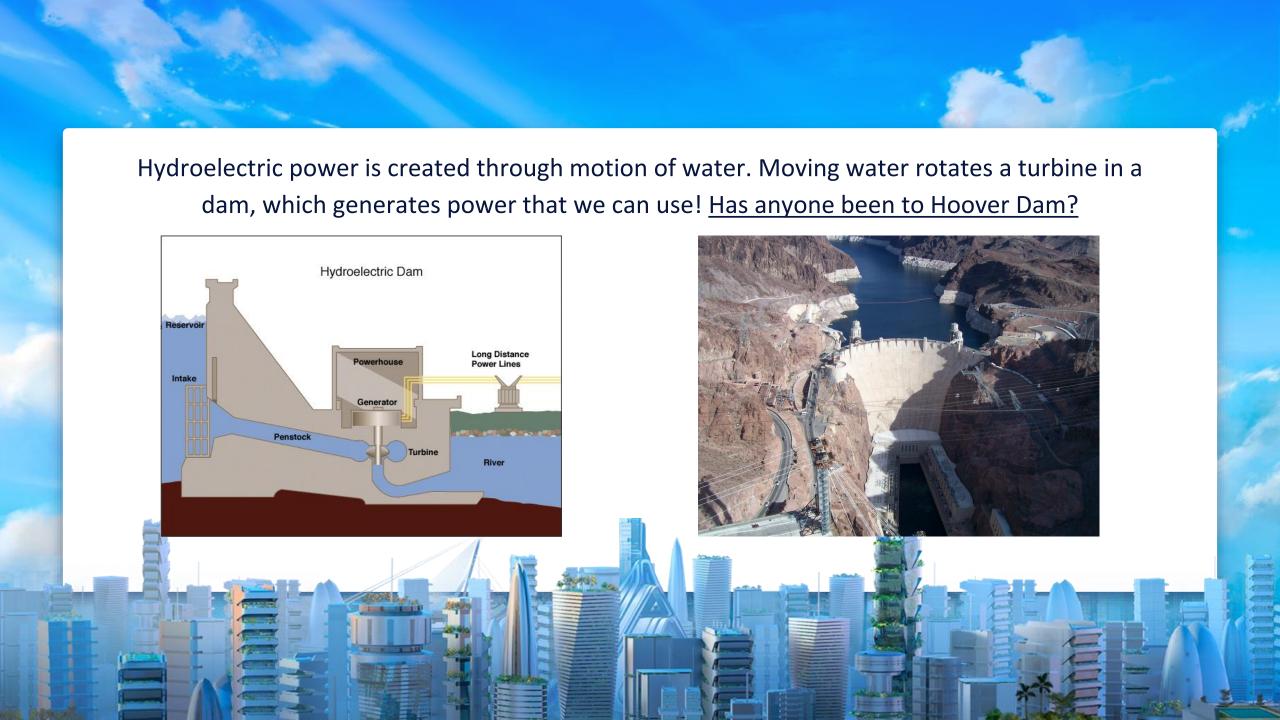










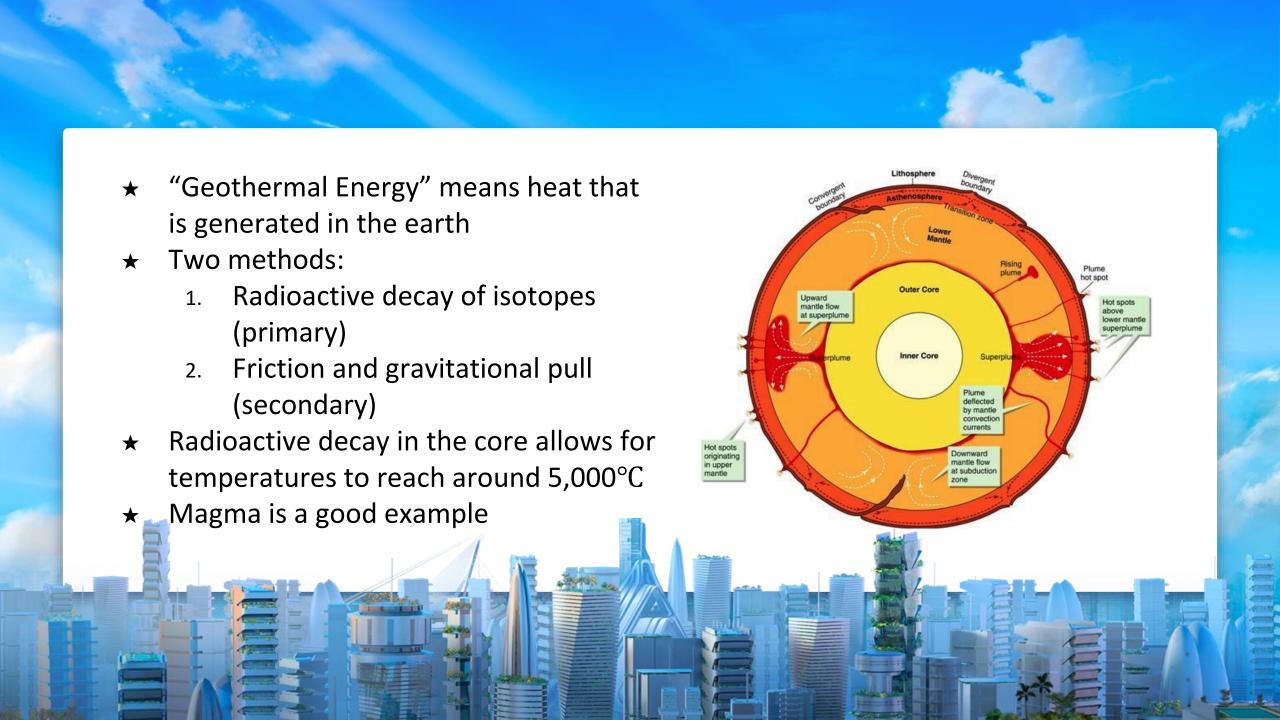


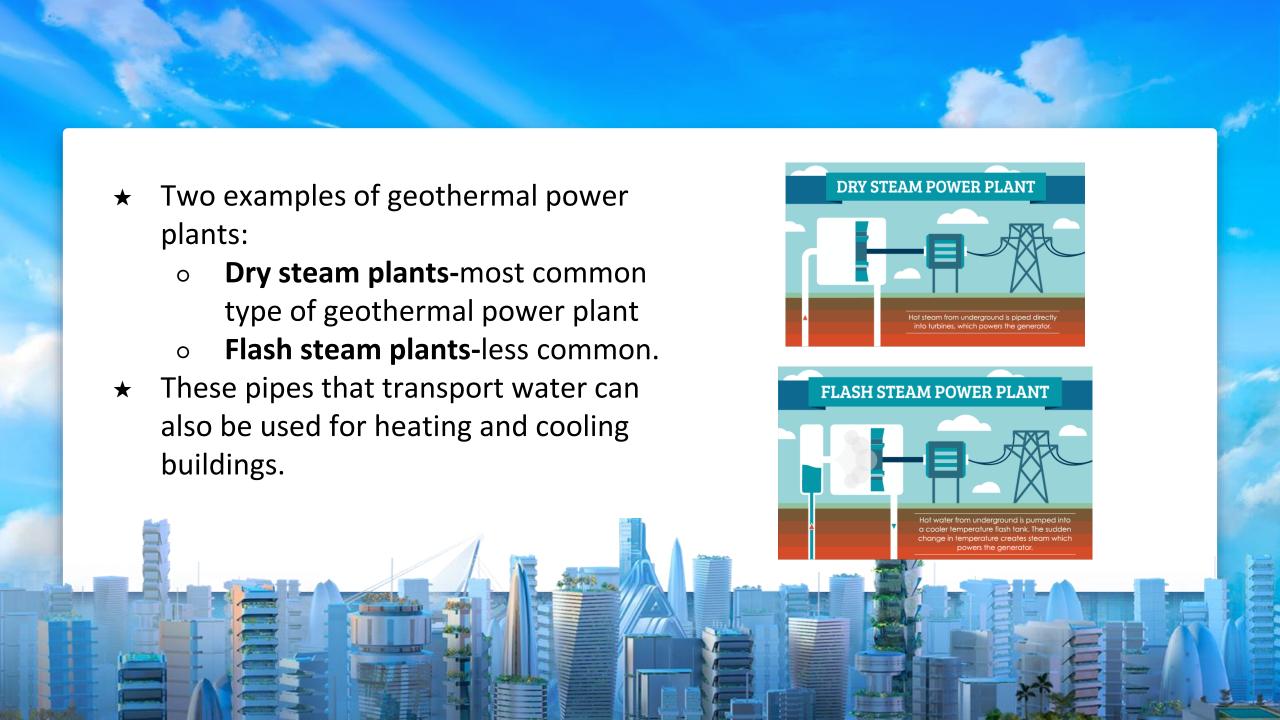


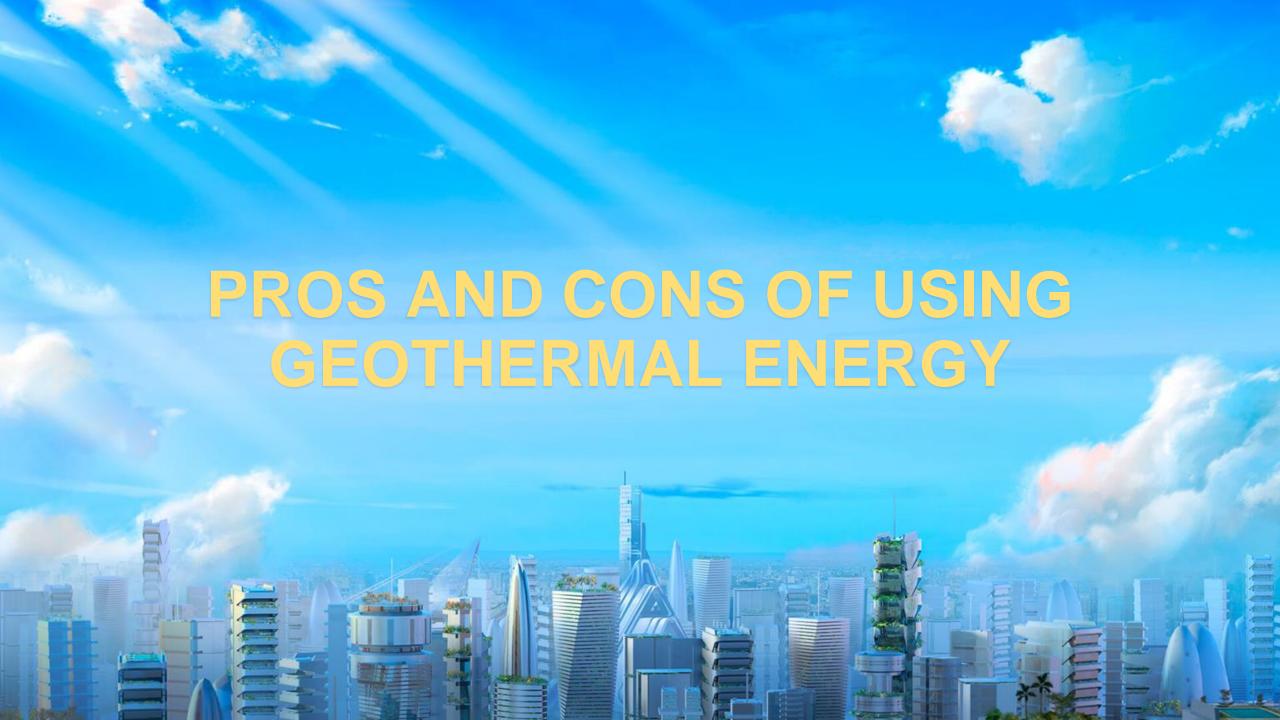




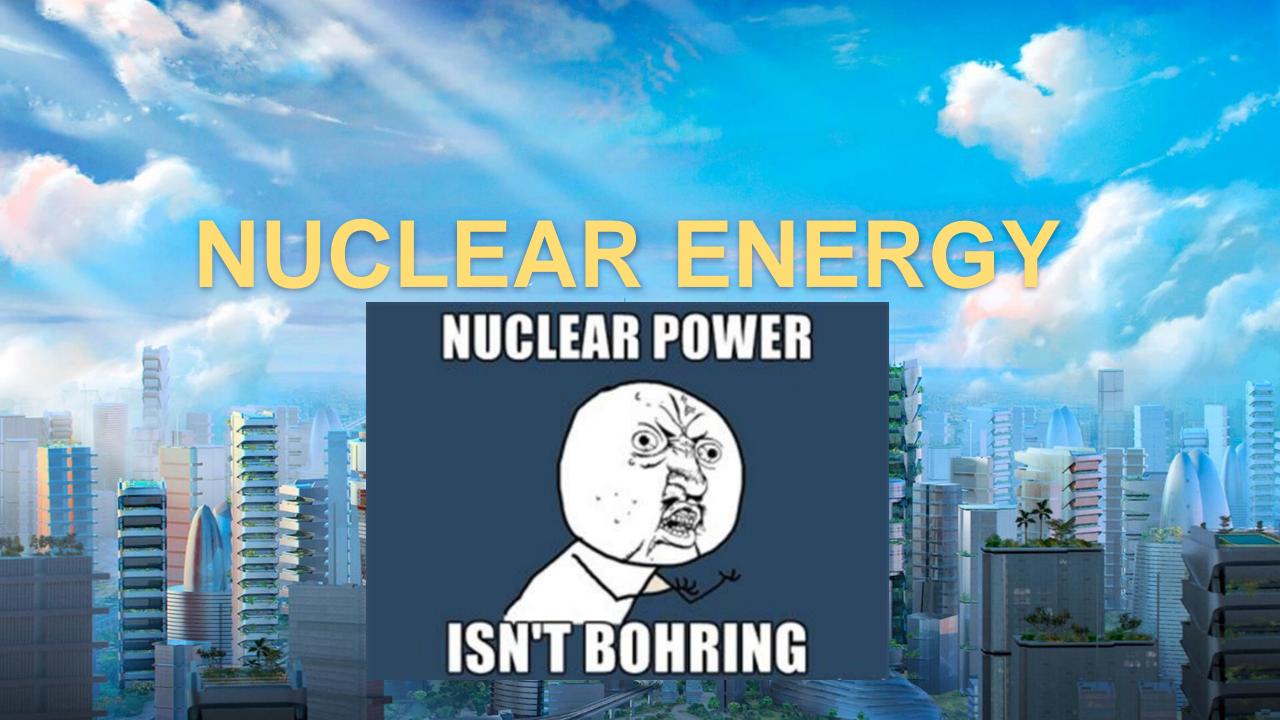




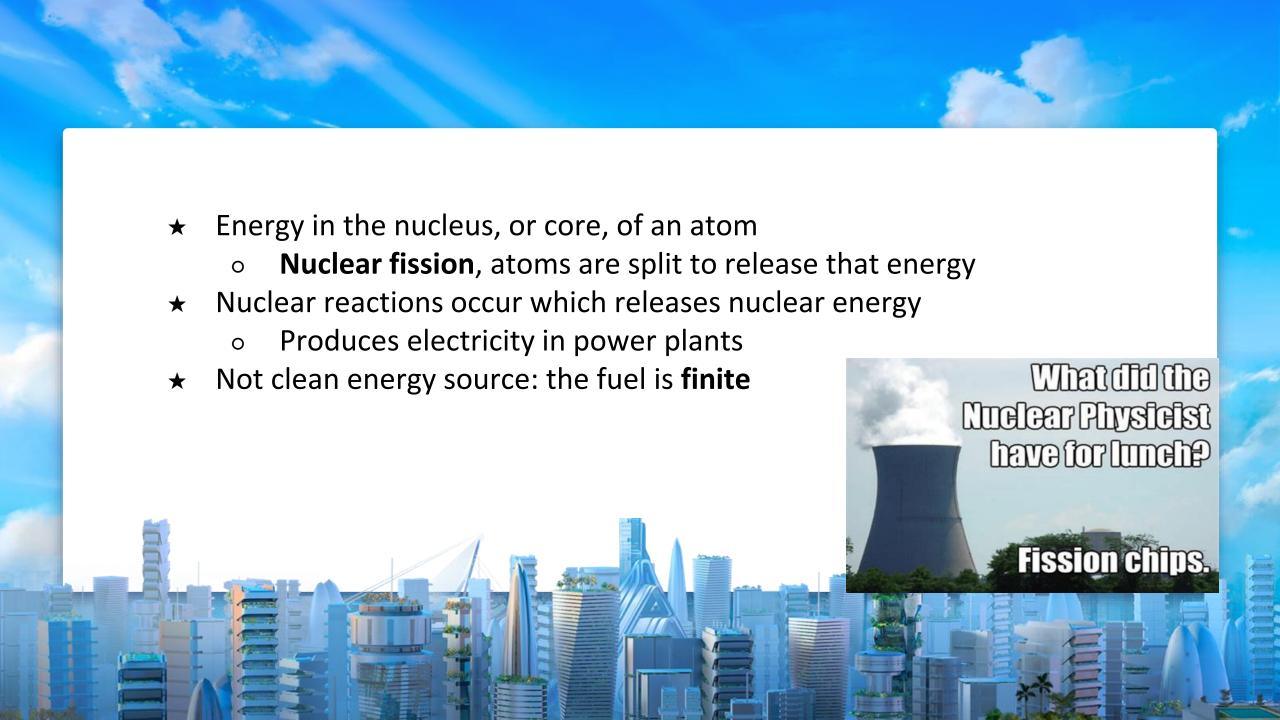




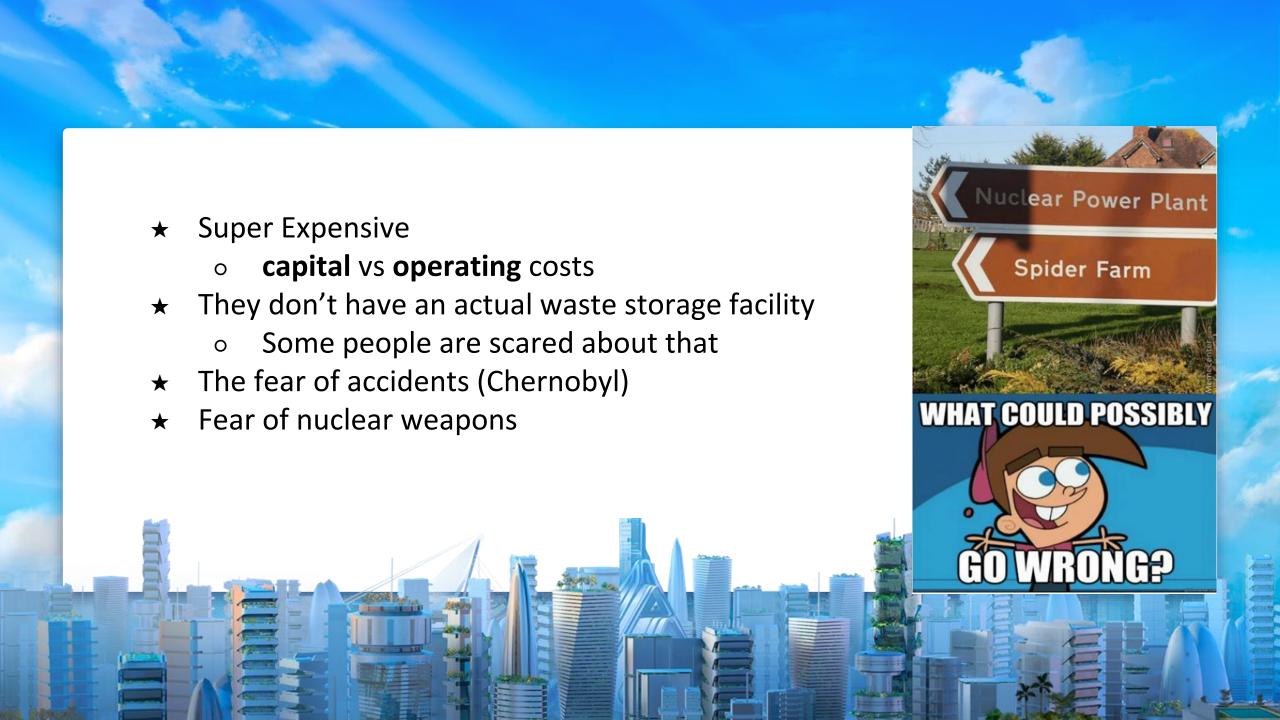
PROS CONS ★ Reliable source of **★** Location specific ★ High initial cost power **★** Small land footprint * Renewable!



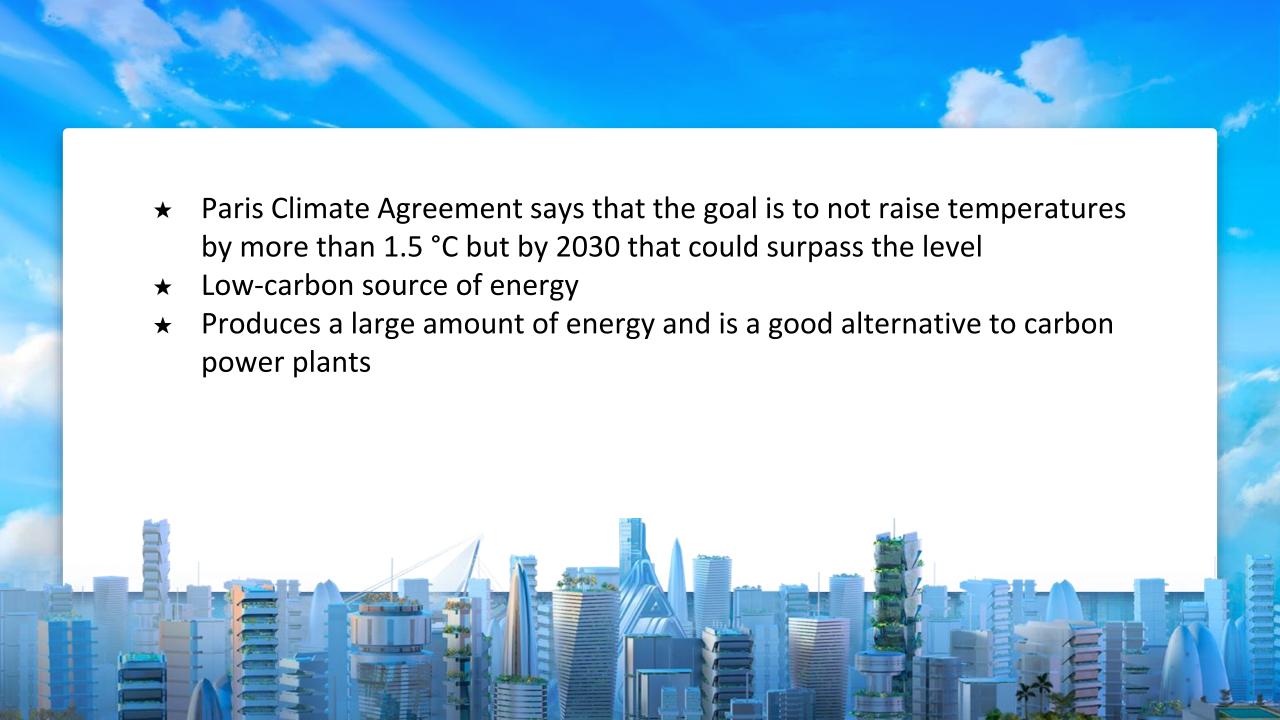


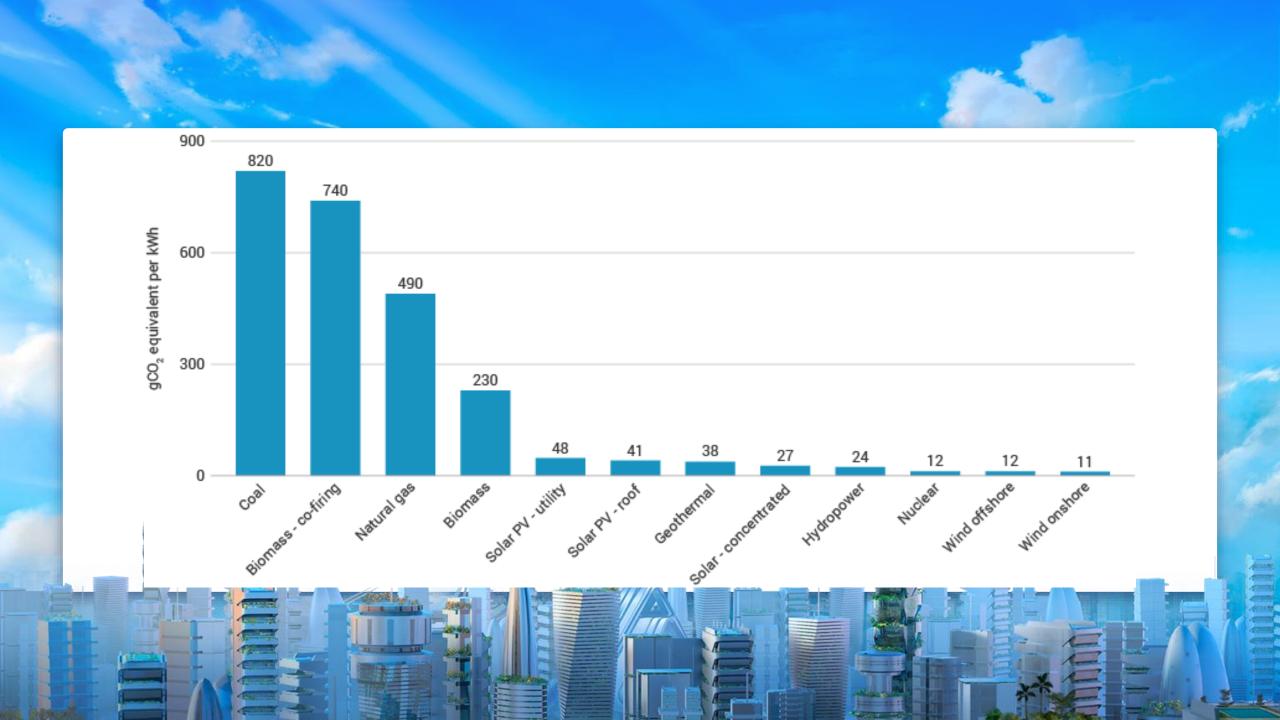




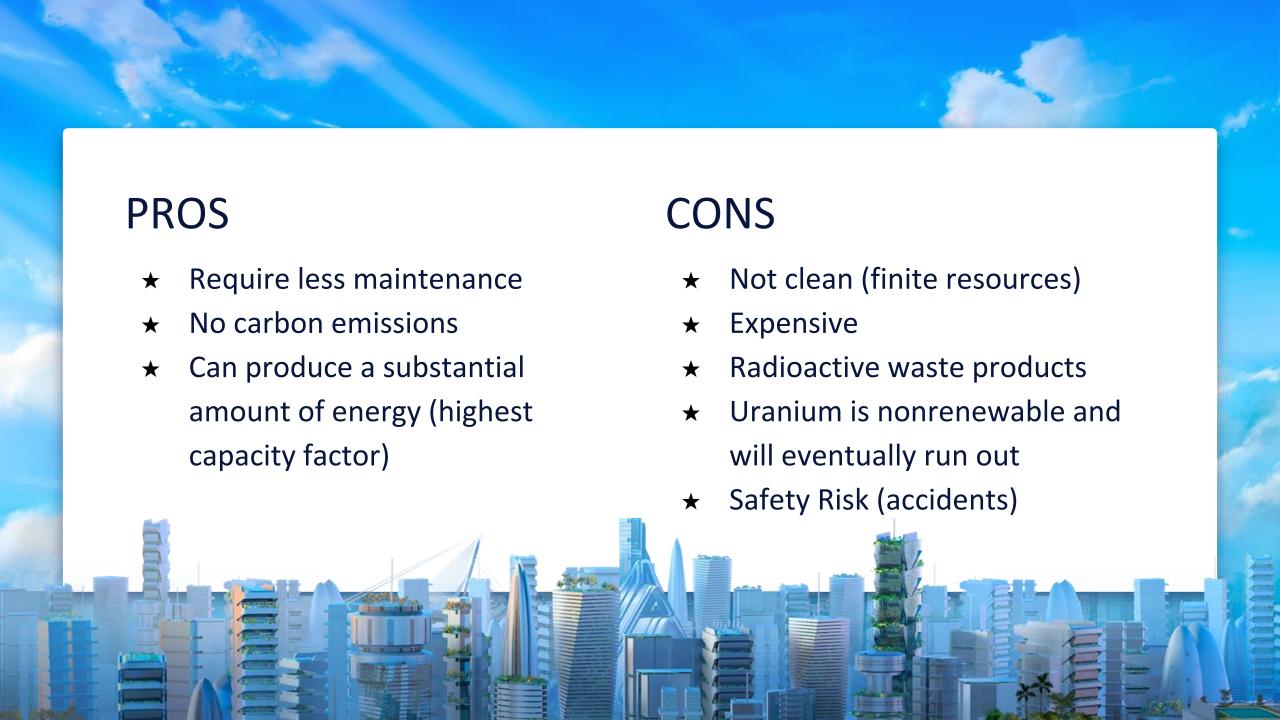




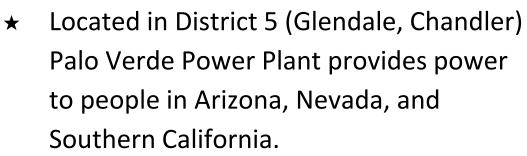










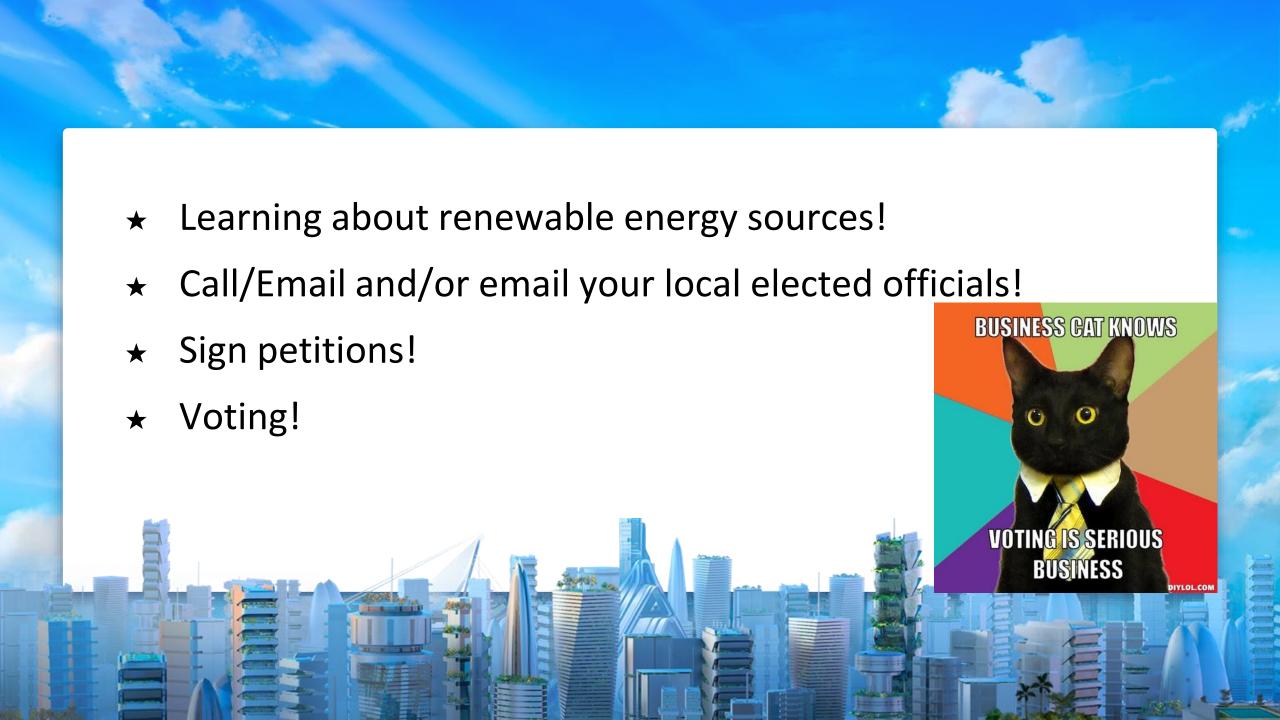


- ★ It is currently shifting over to renewable energy sources like nuclear and solar.
- ★ This shows that we can shift over to using more renewable energy sources!

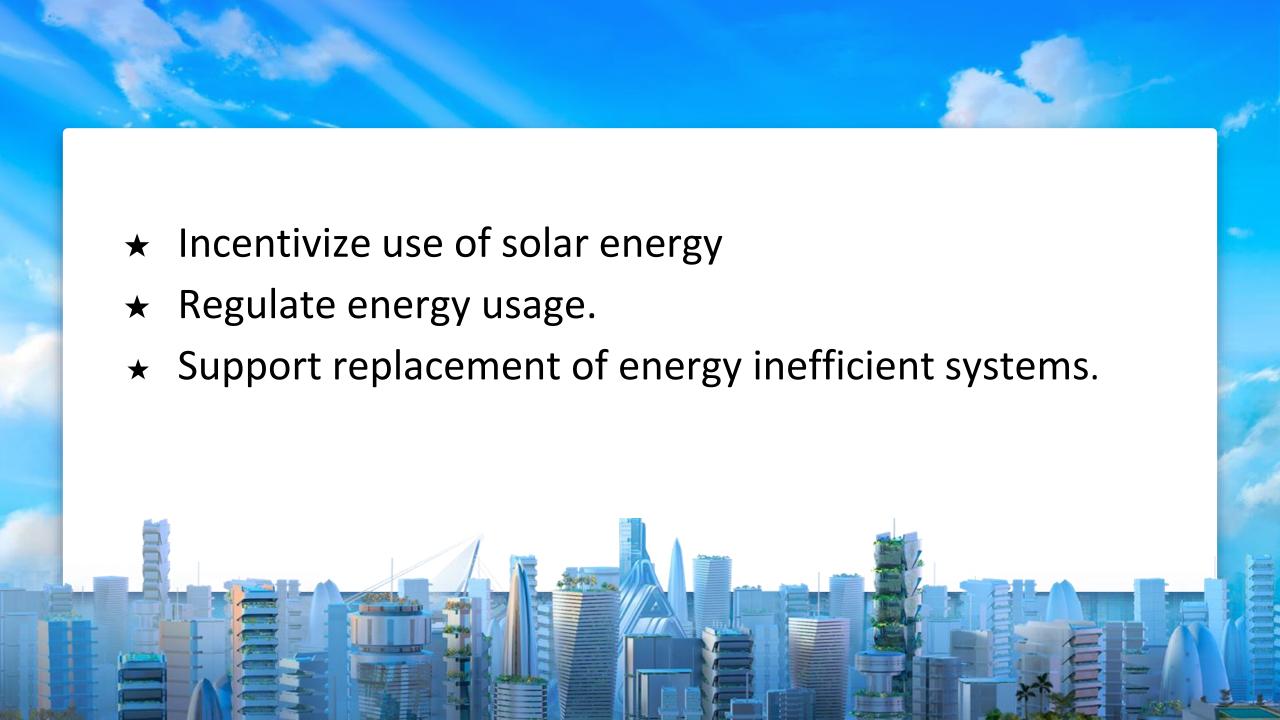














Share your Opinions and Ideas

Climate Page, Survey, Future **Workshop Information** www.phoenix.gov/climate





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THE FUTURE OF PHOENIX

DRAFT **CLIMATE ACTION PLAN**

Join the City of Phoenix and provide your input on addressing climate change. Share your concerns, needs, and ideas to co-create solutions. Your collaboration is needed to help the City determine priorities, needs, and opportunities to address climate change.

VIRTUAL WORKSHOP SERIES:

BUSINESS AND CLIMATE

June 16th 11:30 - 1:00PM

WATER AND CHMATE

June 17th 5:00 - 6:30PM

HEAT AND CLIMATE

June 22nd 11:00 - 12:30PM

COUNCIL

D7 AND D8 June 26th 10:00 - 11:30AM

YOUTH CLIMATE

June 26th 3:00 - 4:30PM

YOUR COMMUNITY AND CLIMATE

June 29th 5:00 - 6:30 p.m.



Help plan the **Future of Phoenix**

REGISTER ONLINE AT PHOENIX.GOV/CLIMATE